Three Phase Hybrid Inverter

THH-10KW/20KW-EU-1







100% three-phase unbalanced output, with each phase capable of delivering up to 50% of the rated power.



Ac coupling to retrofit existing solar system.



Max. 10 pcs parallel for on-grid and on-grid.



Support multiple batteries parallel.



High voltage battery, higher efficiency



6 time periods for battery charging/discharging



Support storing energy from diesel generator











Technical Data

Model	THH-10KW-EU-1	THH-20KW-EU-1
PV String Input		
Max. DC Input Power (W)	13000	26000
Max. DC Input Voltage (V)		1000
Start-up Voltage (V)		180
MPPT Range (V)		150-850
Full Load DC Voltage Range (V)	325-850	500-850
Rated DC Input Voltage (V)		600
PV Input Current (A)	20+20	26+26
Max. PV Isc (A)	30+30	39+39
No.of MPPT Trackers		2
No.of Strings per MPPT Tracker	1+1	2+2
AC Output		
Rated AC Output Power (W)	10000	20000
Max. AC Output Power (W)		11000
AC Output Rated Current (A)		15
Max. AC Output Current (A)	16.5	
Max. Three-phase Unbalanced Output	22	35
Max. Continuous AC Passthrough (A)		40
Peak Power (Off Grid)	1.5 times	s of rated power, 10 S
Generator Input/Smart Load/AC Couple	15.2/40/15.2	30.4/80/30.4
Power Factor		
Output Frequency and Voltage	0.8 leading - 0.8 lagging	
	50/60Hz; 3L/N/PE 220/380Vac, 230/400Vac	
Grid Type	Three Phase	
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)	
DC Current Injection		<0.5% In
Battery		PARTON CON
Battery Type	Lithium-ion	
Battery Voltage Range (V)	160-700	
Max. Charging Current (A)	37	
Max. Discharging Current (A)	37	
Number of Battery Input	1	
Charging Strategy for Li-lon Battery	Self-	adaption to BMS
Efficiency		PADAGO
Max. Efficiency	97.6%	
Euro Efficiency	97%	
MPPT Efficiency		99%
Protection		
Anti-islanding Protection	Yes	
PV String Input Reverse Polarity Protection	Yes	
Insulation Resistor Detection	Yes	
Residual Current Monitoring Unit	Yes	
Output Over Current Protection	Yes	
Output Shorted Protection	Yes	
Surge Protection	Yes	
Arc Fault Circuit Interruption (AFCI optional)	Yes	
Over Voltage Category	DC T	ype II/AC Type III
Certifications and Standards		
Grid Regulation	IEC6172	27/62116,EN50549-1
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/	/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data		
Operating Temperature Range (°C)	-40-60°C, >45°C Derating	
Cooling	Smart Cooling	
Noise (dB)	≤65 dB	
Communication with BMS	CAN	
Monitoring mode	WIFI , APP	
Weight (kg)	80	
Size (WxHxD mm)	408×638×237 (Excluding Connectors and Brackets)	
Ingress Protection	lp65	
Installation Style	1	Wall-mounted
Warranty		s (10 Years Optional)
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